



Patent
PD-00W089

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:) Date: October 14, 2003
ROBERT W. BYREN)
Serial No.: 09/965,764) Art Unit: 2878
Filed: September 28, 2001)
Title: SYSTEM AND METHOD FOR) Examiner: Lee, Patrick J.
EFFECTING HIGH-POWER BEAM	
CONTROL WITH ADAPTIVE . . .	

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Post Office Box 1450
Alexandria, VA 22313

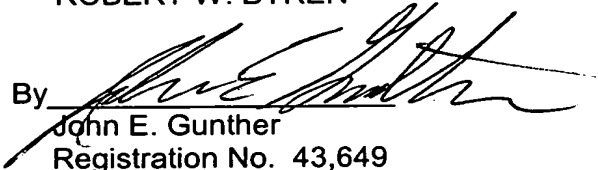
Dear Sir:

The references cited on the enclosed form PTO/SB/08A (copy of references enclosed) may be material to the examination of the above-identified patent application and are, therefore, submitted in compliance with the duty of disclosure defined in 37CFR 1.56.

This Information Disclosure Statement is not to be construed as a representation that a search has recently been made, or that additional information constitutes prior art.

Respectfully submitted,
ROBERT W. BYREN

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John E. Gunther

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Sheet	1	of	2
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Applicati n Number	09/965,764
Filing Date	09/28/2001
First Named Inventor	R.W. Byren
Group Art Unit	2878
Examiner Name	Lee, Patrick J.
Attorney Docket Number	PD00W089

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
		5,694,408		Bott, et al.	12-02-1997	
		5,090,795		O'Meara et al.	02-25-1992	
		5,253,033		W.M. Lipchak	10-12-1993	
		5,126,869		T. Dorschner	06-30-1992	
		5,093,747		T. Dorschner	03-03-1992	
		5,093,740		T. Dorschner	03-03-1992	
		5,018,835		T. Dorschner	05-28-1991	
		5,964,701		H. Asada	09-12-1999	
		4,798,462		R. Byren	01-17-1989	
		4,734,911		H. Bruesselboch	03-29-1988	
		5,483,342		D. Rockwell	01-09-1996	
		5,886,800		Aprahamian et al.	03-23-1999	
		5,410,397		Toeppen	04-25-1995	
		5,198,653		Shen et al.	03-30-1993	
		4,326,800		Fitts	04-27-1982	

[illegible]

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Date Considered

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Sheet 1 of 2

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First Named Inventor	R. W. Byren
Group Art Unit	2878
Examiner Name	Lee, Patrick J.
Attorney Docket Number	PD00W089

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials ²	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		TYSON and ULRICH, "Adaptive Optics", The Infrared and Electro-Optical Handbook, Volume 8, Chapter 2, ERIM, Ann Arbor, MI, pp. 165-237, (1963).	
		GOLNICK, "Directed Energy Systems", The Infrared and Electro-Optical Handbook, Volume 8, Chapter 5, ERIM, Ann Arbor, MI, pp. 403-480, (1963).	
		BASOV et al, "Inversion of Wavefront in SMBS of a Depolarized Pump," JTEP Lett. Volume 28, No. 4, pp. 197-201, August 1978	
		BETIN, MATTHEWS, and MANGIR, "Vector Phase Conjugation with Loop Laser Geometry," CLEO '97 Proceedings, Paper No. CTuL4, pp. 102-103, (1997)	
		E. TREACY, "Optical Pulse Compression with Diffraction Gratings," IEEE J. of Quantum Electronics, Volume QE-5, No. 9, p. 454, September 1969	

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